

Product Brief

- Supports 4th Gen & 5th Generation Intel® Core™ Processors (Socket 1150)
- Sapphire Black PCB, Digi Power
- Supports Dual Channel DDR3 1600
- 1 PCIe 3.0 x16, 5 PCIe 2.0 x1
- Graphics Output Options: D-Sub, DVI-D, HDMI
- Realtek Gigabit LAN
- 5.1 CH HD Audio (Realtek ALC662 Audio Codec), ELNA Audio Caps
- 4 SATA3, 2 SATA2, 4 USB 3.0 (2 Front, 2 Rear), 8 USB 2.0 (4 Front, 4 Rear)
- Supports ASRock Full Spike Protection, ASRock Cloud, APP Shop, A-Tuning, Full HD UEFI



Detail Specification

Platform	- ATX Form Factor - Solid Capacitor design - High Density Glass Fabric PCB
Unique Feature	- Sapphire Black PCB - ASRock Full Spike Protection - ASRock Cloud - ASRock APP Shop
CPU	- Supports New 4th and 5th Generation Intel® Core™ i7/i5/i3/Xeon®/Pentium®/Celeron® Processors (Socket 1150) - Digi Power design - 4 Power Phase design - Supports Intel® Turbo Boost 2.0 Technology
Chipset	- Intel® B85
Memory	- Dual Channel DDR3 Memory Technology - 4 x DDR3 DIMM Slots - Supports DDR3 1600/1333/1066 non-ECC, un-buffered memory - Max. capacity of system memory: 32GB - Supports Intel® Extreme Memory Profile (XMP) 1.3 / 1.2
Expansion Slot	- 1 x PCI Express 3.0 x16 Slot (PCIe2: x16 mode) - 5 x PCI Express 2.0 x1 Slots
Graphics	* Intel® HD Graphics Built-in Visuals and the VGA outputs can be supported only with processors which are GPU integrated. - Supports Intel® HD Graphics Built-in Visuals : Intel® Quick Sync Video with AVC, MVC (S3D) and MPEG-2 Full HW Encode1, Intel® InTru™ 3D, Intel® Clear Video HD Technology, Intel® Insider™, Intel® HD Graphics 4400/4600 - Pixel Shader 5.0, DirectX 11.1 - Max. shared memory 1792MB - Three graphics output options: D-Sub, DVI-D and HDMI - Supports Triple Monitor - Supports HDMI with max. resolution up to 1920x1200 @ 60Hz - Supports DVI-D with max. resolution up to 1920x1200 @ 60Hz - Supports D-Sub with max. resolution up to 1920x1200 @ 60Hz - Supports Auto Lip Sync, Deep Color (12bpc), xvYCC and HBR (High Bit Rate Audio) with HDMI Port (Compliant HDMI monitor is required) - Supports HDCP with DVI-D and HDMI Ports - Supports Full HD 1080p Blu-ray (BD) playback with DVI-D and HDMI Ports
Audio	- 5.1 CH HD Audio (Realtek ALC662 Audio Codec) - Supports Surge Protection (ASRock Full Spike Protection) - ELNA Audio Caps
LAN	- PCIe x1 Gigabit LAN 10/100/1000 Mb/s - Realtek RTL8111GR - Supports Wake-On-WAN - Supports Wake-On-LAN - Supports Lightning/ESD Protection (ASRock Full Spike Protection) - Supports LAN Cable Detection - Supports Energy Efficient Ethernet 802.3az - Supports PXE

Rear Panel I/O	- 1 x PS/2 Mouse Port - 1 x PS/2 Keyboard Port - 1 x D-Sub Port - 1 x DVI-D Port - 1 x HDMI Port - 4 x USB 2.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 2 x USB 3.0 Ports (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x RJ-45 LAN Port with LED (ACT/LINK LED and SPEED LED) - HD Audio Jacks: Line in / Front Speaker / Microphone	
Storage	- 4 x SATA3 6.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug - 2 x SATA2 3.0 Gb/s Connectors, support NCQ, AHCI and Hot Plug	
Connector	- 1 x TPM Header - 1 x Power LED Header - 2 x CPU Fan Connectors (1 x 4-pin, 1 x 3-pin) - 2 x Chassis Fan Connectors (1 x 4-pin, 1 x 3-pin) - 1 x Power Fan Connector (3-pin) - 1 x 24 pin ATX Power Connector - 1 x 8 pin 12V Power Connector - 1 x PCIe Power Connector - 1 x Front Panel Audio Connector - 1 x SPDIF Out Connector - 2 x USB 2.0 Headers (Support 4 USB 2.0 ports) (Supports ESD Protection (ASRock Full Spike Protection)) - 1 x USB 3.0 Header (Supports 2 USB 3.0 ports) (Supports ESD Protection (ASRock Full Spike Protection))	
BIOS Feature	- 32Mb AMI UEFI Legal BIOS with multilingual GUI support - ACPI 1.1 Compliant wake up events - SMBIOS 2.3.1 support - CPU, DRAM, PCH 1.05V Voltage multi-adjustment	
Support CD	- Drivers, Utilities, AntiVirus Software (Trial Version), Google Chrome Browser and Toolbar, Start8 (30 days trial), Orweb.ME Professional (Win 8.1 / 7)	
Software and UEFI	- Software - ASRock A-Tuning - ASRock Disk Health Report - ASRock USB Key - ASRock System Browser - ASRock APP Charger - ASRock XFast LAN - ASRock XFast RAM - ASRock Restart to UEFI	- UEFI - ASRock Interactive UEFI - ASRock Instant Flash - ASRock Internet Flash - ASRock Crashless BIOS - ASRock OMG (Online Management Guard) - ASRock UEFI Tech Service - ASRock Dehumidifier - ASRock Easy Driver Installer
Hardware Monitor	- CPU/Chassis temperature sensing - CPU/Chassis/Power Fan Tachometer - CPU/Chassis Quiet Fan (Auto adjust chassis fan speed by CPU temperature) - CPU/Chassis Fan multi-speed control - Voltage monitoring: +12V, +5V, +3.3V, CPU Vcore	
OS	- Microsoft® Windows® 8.1 32-bit / 8.1 64-bit / 8 32-bit / 8 64-bit / 7 32-bit / 7 64-bit	
Certifications	- FCC, CE, WHQL - ErP/EuP ready (ErP/EuP ready power supply is required)	
Accessories	- Quick Installation Guide, Support CD, I/O Shield - 2 x SATA Data Cables	



ASRock Cloud

ASRock Cloud* technology makes your mobile devices connect to your PC seamlessly and supports multi devices for accessing File Explorer cloud service simultaneously! We offer a one-year subscription to Orbweb.ME Professional version, a personal cloud service which is \$49.99 per year. It allows you to get connected with your PC's files, music, photos, and video clips remotely with tablets anytime, anywhere. Plus an additional one-month upgrade to Orbweb.ME Ultimate package with Remote Desktop function.

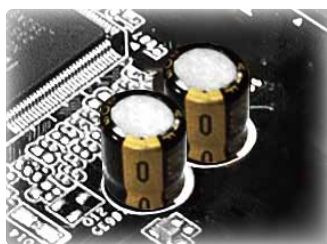


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ELNA Audio Caps

Who says high quality audio is only available on high-end motherboards? ASRock applied ELNA audio capacitors on mainstream and entry-level motherboards! Compared with traditional solid caps, the leakage current of ELNA audio caps is merely 3uA. This is the key to reduce noise level significantly and satisfy even the pickiest audiophiles.



3 Graphics Outputs

Complete with all three types of most used connectors! Packed with a D-Sub + DVI + HDMI combo. Plus the HDMI port supports Full HD 1080p Blu-ray (BD) playback.



Triple Monitor

This motherboard supports Triple Monitor. You may choose up to three display interfaces to connect monitors and use them simultaneously.



Digi Power

By adopting digital Pulse-width modulation (PWM), the ASRock motherboard can provide CPU Vcore voltage more efficiently and smoothly.



A-Tuning

A-Tuning is ASRock's multi purpose software suite with a new interface, more new features and improved utilities, including XFast RAM and a whole lot more.



ASRock APP Shop

We provide various apps and support software for users to download. You can easily optimize your system and keep your motherboard up to date with ASRock APP Shop.



Full Spike Protection

Some sensitive digital components on the motherboard are vulnerable to power surges, the excessive current may cause your system to malfunction immediately. ASRock Full Spike Protection includes various technologies to prevent your motherboard's components (USB, LAN, MOSFETs) from being damaged by these unexpected voltage spikes.